

# Panel Mount Mini Solid State Relay

## Single Phase AC Output

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**RoHS  
Compliant**



### Description

The industrial single phase relay with TRIAC output is widely used in industry applications. The relay can be used for resistive, inductive or capacitive load. The control voltage is 4-32V DC, output current is rated at 10A, 16A or 25A.

### Application

High-low Temperature Chamber, Food Machine, Industrial Machine.

### Features

- Zero-crossing
- Rated Load Current: 10A, 16A, 25A
- Opto-isolation:  $\geq 4000V$  ACrms
- With LED Indication
- Internal RC Protection Circuit
- MOV Protection (Optional)

### Technical Specification

| Input Circuit                                          |               |                |
|--------------------------------------------------------|---------------|----------------|
| Control Voltage Range                                  |               | 4-32V DC       |
| Minimum Turn-on Voltage                                |               | 4V DC          |
| Minimum Turn-off Voltage                               |               | 1V DC          |
| Maximum Input Current                                  |               | 25mA           |
| Output Circuit                                         |               |                |
| Load Voltage                                           |               | 24-280V AC     |
| Maximum Turn-on Time                                   | Zero Crossing | 10ms           |
| Maximum Turn-off Time                                  |               | 10ms           |
| Maximum Surge Current<br>[@10ms]                       | 10A           | 100A           |
|                                                        | 16A           | 160A           |
|                                                        | 25A           | 250A           |
| Transient Over voltage                                 |               | 600Vpk         |
| Maximum Off-State Leakage Current<br>[@ Rated Voltage] |               | 5mA            |
| Maximum On-State Voltage Drop<br>[@ Rated Current]     |               | 1.5Vrms        |
| Minimum Off-State dv/dt<br>[@ Maximum Rated Voltage]   |               | 200 V/ $\mu$ s |

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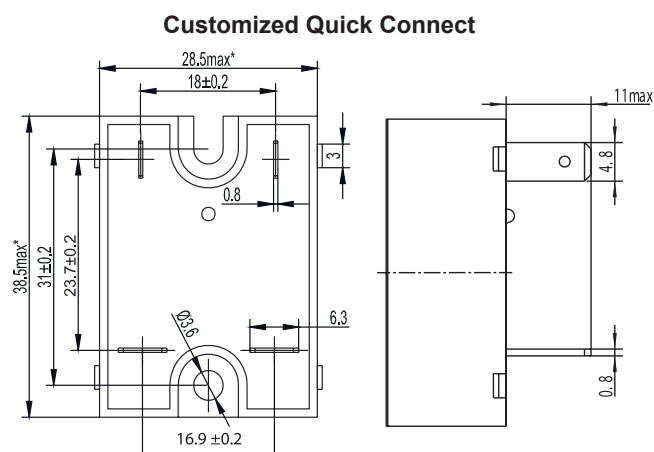
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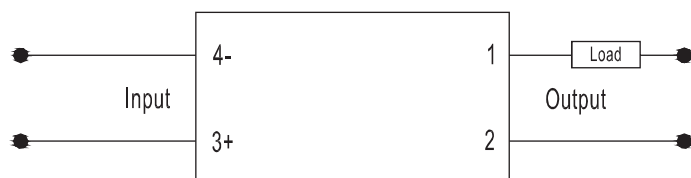
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| General Information                 |                    |                |
|-------------------------------------|--------------------|----------------|
| Dielectric Strength,<br>[50/60Hz]   | Input/Output       | ≥4000Vrms      |
|                                     | Input, Output/Base | ≥2500Vrms      |
| Power Factor                        |                    | >0.5           |
| Ambient Operating Temperature Range |                    | -30°C ~ +80°C  |
| Ambient Storage Temperature Range   |                    | -30°C ~ +100°C |
| Weight [Typical]                    |                    | 33g            |

## Installation Drawing



## Wiring Diagram



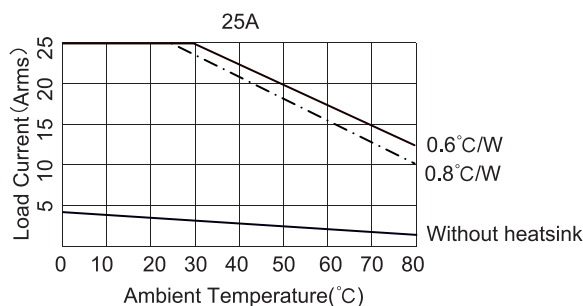
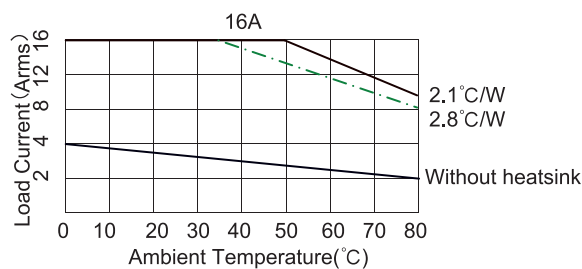
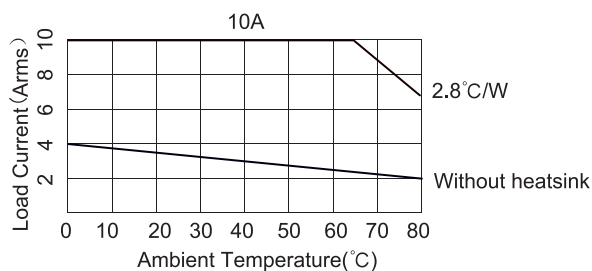
Dimensions : Millimetres

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### Thermal Curve



### Part Number Table

| Description                                                                         | Part Number |
|-------------------------------------------------------------------------------------|-------------|
| SSR, Mini, Panel Mount, Quick Connect, 10A, 240V AC, 4-32V DC, Zero Crossing, TRIAC | MC002355    |
| SSR, Mini, Panel Mount, Quick Connect, 16A, 240V AC, 4-32V DC, Zero Crossing, TRIAC | MC002356    |
| SSR, Mini, Panel Mount, Quick Connect, 25A, 240V AC, 4-32V DC, Zero Crossing, TRIAC | MC002357    |

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